LTV Steel Company





October 20, 1989

Ms. Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Post Office Box 19276
Springfield, IL 62794-9276

Re: 1558010006 - Putnam County LTV Steel Company, Inc.

ILD 000781591

Hennepin Works/LTV Steel

LID 000781591

Dear Ms. Tin:

This letter is in response to your Compliance Inquiry Letter (CIL) of October 6, 1989 regarding the above-referenced facility.

As required by 35 Illinois Administrative Code (IAC), Section 725.242(b), LTV has adjusted the RCRA facility closure cost estimate and determined the revised (1988) closure cost to be \$75,438.00, representing an increase of \$2,197 over the 1987 closure cost estimate of \$73,241. LTV Steel has initiated action to establish an irrevocable letter of credit in favor of IEPA for the sum of \$2,197 and, upon receipt, will promptly forward appropriate copies of all documents to your attention.

Should you require anything additional, please contact me at 216/429-6539.

Sincerely,

R. A. Voytko

Environmental Management Engineer

RAV/dcr/5249a

Attachment

RECEIVED

cc: Mr. Andrew Vollmer

OCT 25 1989

IEPA Administrative Compliance Unit

IEPA-DLPC

Compliance Section

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Illinois Environmental Protection Agency P.O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Certified # 12/15 235866

Refer to: 1558010006 - Putnam County

LTV Steel Company

ILD000781591 Compliance File

U.I.C. COMPLIANCE INQUIRY LETTER

October 13, 1989

LTV Steel Company Attn: P.N. Schlingman Hennepin Works, Post Office Box 325 Hennepin, Illinois 61327

Dear Mr. Schlingman:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of permit UIC-004-W1-JL and to inquire as to your position with respect to the apparent violations identified in attachment A and your plans to correct these apparent violations.

The Agency's findings of apparent non-compliance in attachment A are based on a October 10, 1989 review of documents submitted to the Agency to demonstrate compliance with the requirements of permit UIC-004-W1-JL.

Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. These resolution dates are not to exceed 60 days from the date of the above referenced inspection and/or record review. The written response should be sent to the following:

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Further, take notice that non-compliance with the requirements of the Illinois Environmental Protection Act and rules and regulations adopted thereunder may be the subject of enforcement action pursuant to the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq.



Page 2

If you have any questions regarding the above, please contact Geordie Smith at 217/782-6761.

Sincerely,

Angela aye Diri

Angela Aye Tin, Manager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT:GDS:sap/3442k,72-73

cc: Division File
Rockford Region
Permit Section
David Retzlaff
Geordie Smith
USEPA Region 5



ATTACHMENT A

1. Pursuant to condition I.B.l.a.i of UIC permit UIC-004-Wl-JL, operating requirements, the maximum injection pressure on the waste injection cycle at the wellhead shall not exceed 110 psig. You are in apparent violation of condition I.B.l.a.i since your injection pressure exceeded the maximum pressure allowed by your permit on two occasions during the month of August 1989.

ATT:GDS:sap/3442k,74

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Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to:

1550105001 -- Putnam County

Hennepin/LTV Steel

ILD00781591 Compliance File

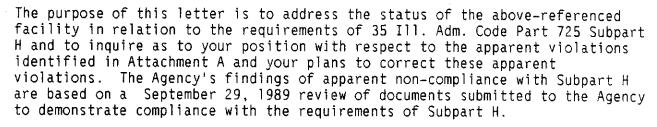
COMPLIANCE INQUIRY LETTER

Certified # P1/5 235 621

October 6, 1989

LTV Steel Attn: Mr. R.A. Voytko 3100 East 45th Street Cleveland, OH 44127

Dear Mr. Voytko:



Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. The written response, and two copies of all documents submitted in reply to this letter, should be sent to the following:

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Further, take notice that non-compliance with the requirements of the Illinois Environmental Protection Act and rules and regulations adopted thereunder may be the subject of enforcement action pursuant to either the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq. or the federal Resource Conservation and Recovery Act (RCRA), 42 <u>U.S.C.</u> Sec. 6901 et seq.



OFFICE OF RCRA WASTE MANAGEMENT DIVISION EPA, REGION V

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Page 2

If you have any questions regarding the above, please contact Kelly Smith at 217/782-6761.

Sincerely,

angela aye Dir

Angela Aye Tin, Manager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT:KS/mls/3486k/14

cc: Division File
Rockford Region
USEPA Region V
Andrew Vollmer
Kelly Smith
Geordie Smith



ATTACHMENT A

- 1. Pursuant to 35 Ill. Adm. Code 725.242(b), during the active life of the facility, the owner or operator shall adjust the closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instruments used to comply with Section 725.243. For owners and operators using the financial test or corporate guarantee, the closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before submission of updated information to the Agency as specified in Section 725.243(e)(5). The adjustment may be made by recalculating the closure cost estimate in current dollars, or by using an inflation factor derived from the most recent annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business as specified in subsections (b)(1) and (b)(2). The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year.
 - The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate.
 - 2. Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor.

You are in apparent violation of 35 Ill. Adm. Code 725.242(b) for the following reason(s): Your closure cost estimates have not been adjusted for inflation.

2. Pursuant to 35 Ill. Adm. Code 725.243, an owner or operator of each facility shall establish financial assurance for closure of the facility. The owner or operator shall choose from the options as specified in subsections (a) through (e).

You are in apparent violation of 35 Ill. Adm. Code 725.243 for the following reason(s): Your letter of credit does not supply adequate funds for closure of your RCRA units.

GS/mls/3486k/16

1/29/89

BEFORE THE ADMINISTRATOR U.S. ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C.

In the Matter of:

Bethlehem Steel Corporation Applicant

UIC Permit Nos. IN-127-1W-001 IN-127-1W-003 IN-127-1W-004 UIC Appeal Nos. 85-8 & 86-13

ORDER DENYING PETITIONS FOR REVIEW

Before me are two petitions filed by Bethlehem Steel Corporation (BSC) under 40 CFR §124.19 requesting review of three Underground Injection Control (UIC) permits issued by Region V under the Safe Drinking Water Act (SDWA), 42 U.S.C.A. §§300f to 300j-11. Two of the permits, Nos. IN-127-1W-003 and -004, were issued together on September 30, 1985. The third, No. IN-127-1W-001, was issued September 30, 1986. All three authorize continued operation of Class I hazardous waste injection wells for disposal of wastewater at BSC's Burns Harbor Plant in Porter County, Indiana. 1/2

Class T wells are defined as including those used "to inject hazardous waste beneath the lowermost formation containing, within one-quarter mile of the well bore, an underground source of drinking water." 40 CFR §144.6(a)(1). The UIC regulations define "hazardous waste" by reference to the definition of that term in the regulations that implement the Resource Conservation and Recovery Act, 42 U.S.C.A. §§6901-6991i. See 40 CFR §144.3.

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BSC requested review of the first two permits by petition dated November 15, 1985 (UIC Appeal No. 85-8), and of the third by petition dated November 10, 1986 (UIC Appeal No. 86-13). As requested by EPA's Chief Judicial Officer, Region V responded to the petitions. By order dated March 26, 1987, BSC was granted leave to file a reply to EPA's response in UIC Appeal No. 86-13, and it did so on May 15, 1987. Due to the similarity of the issues raised by BSC's petitions, I have consolidated these appeals for unified disposition.

The SDWA and implementing regulations do not provide for automatic administrative review of UIC permit decisions. See 40 CFR §124.19. Generally, petitions for review are not granted unless the permit determination is clearly erroneous (legally or factually) or involves an important policy matter or exercise of discretion. The preamble to the regulations states that "this power of review should be only sparingly exercised" and that "most permit conditions should be finally determined at the Regional level * * *." 45 Fed. Reg. 33,412 (May 19, 1980). The burden of demonstrating that review should be granted is on the petitioner.

In both petitions, BSC argues that its UIC permits should not include the corrective action requirements imposed under Section 3004(u) of the Resource Conservation and Recovery Act

See In re Gelman Science, Inc., UIC Appeal No. 86-14, at 2-5 (Nov. 6, 1987); In re NEA Cross Co., UIC Appeal No. 85-9, at 2-3 (Oct. 10, 1986).

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(RCRA), 42 U.S.C.A. §6924(u). In UIC Appeal No. 85-8, BSC also challenges permit terms incorporating certain RCRA general facility and post-closure standards. These matters raise issues regarding the relationship between RCRA, the SDWA, and the Clean Water Act, 33 U.S.C.A §§1251-1387. For the reasons set forth below, BSC has failed to show that the Region's permit decision is clearly erroneous or otherwise warrants review. 3/

Statutory and Regulatory Background

Because this case involves the interrelationship of three major environmental statutes, a brief description of each is in order.

The Clean Water Act: In 1972, Congress established the basic framework for federal water pollution regulation by enacting the Federal Water Pollution Control Act, later renamed the Clean Water Act (CWA). The CWA prohibits the "discharge" of a pollutant into the waters of the United States unless made under a nationwide permit program known as the National Pollutant Discharge Elimination System (NPDES). Id. §§1311(a), 1342. EPA may issue NPDES permits itself or authorize a state to issue permits

BSC's petition in UIC Appeal No. 85-8 challenged several other permit conditions, but after an exchange of correspondence with EPA, BSC limited its request for review to the issues identified above. See Letter from R. Penny (BSC) to C. Sutfin (U.S. EPA Region V) (Apr. 25, 1986); Letter from R. Penny (BSC) to R. McCallum (U.S. EPA) (Apr. 25, 1986); Letter from R. Penny (BSC) to R. McCallum (U.S. EPA) (Feb. 10, 1986); Letter from C. Sutfin (U.S. EPA Region V) to R. Penny (BSC) (Jan. 27, 1986).

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if the state's program meets certain statutory requirements. Id. §1342.

One of the requirements for an authorized state NPDES program is the control of "the disposal of pollutants into wells." Id. §1342(b)(1)(D). EPA does not, however, consider well injection to be a "discharge" and has never asserted wholesale jurisdiction over well injection under the CWA. Initially, EPA issued NPDES permits covering well injection only when such injection was an adjunct to surface water discharges. See Decision of the General Counsel No. 6 (April 8, 1975). As explained by the General Counsel in 1973,

Jurisdiction over a permittee is based upon §301 of the Act, which provides that the "discharge of a pollutant" is unlawful except as in compliance with the regulatory provisions of the Act. Section 402 authorizes the Administrator to issue a permit "for the discharge of a pollutant." Under §502(12) the term "discharge of a pollutant" is defined so as to include only discharges into navigable waters (or the contiguous zone or the ocean). Discharges into ground waters are not included. Accordingly, permits may not be issued, and no application is required, unless a discharge into navigable waters is proposed or is occurring.

Section 125.26(a) of the NPDES regulations requires the Regional Administrator to formulate and apply permit conditions to prevent pollution of surface and underground water resources whenever disposal into wells is contemplated as part of a program to comply with effluent limitations and other requirements in an NPDES permit. This provision cannot, of course, extend EPA's jurisdiction to cover disposal into wells not in connection with discharges into navigable waters. However, whenever a permit is issued for a discharge into navigable waters, §125.26(a) requires controls to be applied to associated discharges into wells.

OGC Memorandum (December 13, 1973) (Attachment to OGC Decision No. 6).

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In 1977 a federal appeals court held that EPA has no authority under the CWA to regulate well injection to subsurface waters with no direct hydrologic connection to surface waters. See Exxon Corp. v. Train, 554 F.2d 1310, 1317-31 (5th Cir. 1977). 4/
Although another federal appeals court disagreed, see U.S. Steel Corp. v. Train, 556 F.2d 822 (7th Cir. 1977), consistent with Exxon EPA now declines to exercise CWA jurisdiction over injection wells (except those that inject into groundwater with a physically and temporally direct hydrologic connection to surface water). Instead, EPA now regulates such well injection under the SDWA. 5/ To remain authorized, however, a state NPDES program must continue to "control the disposal of pollutants into wells" as required by 33 U.S.C.A. §1342(b)(1)(D).

The Safe Drinking Water Act: In 1974, the Congress passed the SDWA to protect drinking water sources from, among other things, contamination by underground well injection. The Act's

The Fifth Circuit did not address the issue of whether the CWA authorizes jurisdiction over discharges into groundwater that has a direct hydrologic connection to surface waters:

Specifically, EPA has not argued that the wastes disposed of into wells here do, or might, "migrate" from groundwaters back into surface waters that concededly are within its regulatory jurisdiction.

* * * We mean to express no opinion on what the result would-be if that were the state of facts.

⁵⁵⁴ F.2d at 1312 n.1.

Although EPA adjusts the NPDES limits for surface water discharges to reflect the extent of well disposal (40 CFR §122.50), it no longer regulates well disposal into isolated groundwater under the CWA. See 44 Fed. Reg. 32,870 (June 7, 1979).

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legislative history suggests that it was enacted due to EPA's limited authority to regulate well injection under the CWA. See H.R. Rep. 1185, 93d Cong., 2d Sess. 4, reprinted in 1974 U.S. Code Cong. & Admin. News 6454, 6457. The SDWA directs EPA to promulgate regulations for the approval of state UIC programs. 42 U.S.C.A. §300h. EPA administers the UIC program in any state without an approved program. Id. §300h-1(c).

The Resource Conservation and Recovery Act: In 1976,

Congress enacted RCRA, the first comprehensive federal control of hazardous waste. It provides for cradle-to-grave management of hazardous waste through the RCRA permitting system, which applies to all facilities that treat, store, or dispose of hazardous waste. 42 U.S.C.A. §6925(a). As with the CWA and the SDWA, EPA may authorize a state to administer its own RCRA program. Id. §6926(b). In 1984, RCRA was amended to add RCRA §3004(u), which requires "corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit under this subchapter, regardless of the time at which waste was placed in such unit." Id. §6924(u); see also 40 CFR §264.101 (implementing RCRA §3004(u)).

Under-the Agency's regulations, wells used to dispose of hazardous waste are subject to regulation under both the UIC and RCRA programs. To streamline paperwork requirements, EPA allows a UIC permittee to qualify for a RCRA permit-by-rule, rather than undergoing the formal RCRA application process. See 40 CFR

§270.60(b); 45 Fed. Reg. 33,335 (May 19, 1980). For UIC permits for Class I hazardous waste wells issued after November 8, 1984 (the date RCRA §3004(u) was added), one condition for obtaining a RCRA permit-by-rule is compliance with the corrective action requirements of RCRA §3004(u). See 40 CFR §270.60(b)(3).

Factual Background

In 1974 (prior to the Exxon decision), EPA issued an NPDES permit to BSC, regulating both the surface water discharges and associated well injections at its Burns Harbor Plant. In January 1975, EPA authorized Indiana to issue NPDES permits under the CWA. Indiana renewed BSC's permit in 1979 under its authorized NPDES program, continuing to regulate BSC's wells under authority conferred by state law.

Indiana has never obtained authority to administer a UIC program under the SDWA. The UIC permits issued here were prepared by U.S. EPA, Region V, and require BSC to comply with the corrective action requirements of RCRA §3004(u).

<u>ANALYSIS</u>

I. The Applicability of RCRA

BSC requests deletion of all RCRA regulatory requirements from its UIC permits because, in its view, it is not injecting hazardous waste into its wells. Under RCRA, "hazardous waste" is a particular kind of solid waste. 42 U.S.C.A. §6903(5). The statutory definition of "solid waste" excludes "solid or dissolved materials in * * * industrial discharges which are

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point sources subject to [NPDES] permits under [CWA §402] * * *."

Id. §6903(27). BSC claims the benefits of this exclusion because it has an NPDES permit that covers its well injection activities. BSC believes that its NPDES permit is sufficient to remove its wells from jurisdiction under RCRA. I disagree.

The exclusion extends only to materials in "discharges" subject to permits under CWA §402. The meaning of the term "discharge" is the linchpin for understanding the CWA as a whole. 4/ As noted above (pp. 4-5), although EPA previously exercised authority over UIC wells under the CWA, EPA has never considered well injection to isolated groundwaters to be a "discharge" under CWA §402. Most courts that have directly addressed the issue agree. See Exxon Corp., 554 F.2d at 1317-31; Kelley v. United States, 618 F. Supp. 1103, 1104-07 (W.D. Mich. 1985); United States v. GAF Corp., 389 F.Supp. 1379, 1383-85 (S.D. Tex. 1975). An examination of the text of the CWA demonstrates the soundness of these decisions.

See H.R. Rep. 911, 92d Cong., 2d Sess. 125 (1972) ("it is extremely important to an understanding of [CWA §402] to know the definition of the various terms used and a careful reading of the definitions in section 502 is recommended. Of particular significance is [sic] the words 'discharge of pollutants.'")

BSC has submitted portions of its NPDES permit authorizing injection into the wells at issue here. Although this permit refers to BSC's well injections as "discharges," this loose reference has no bearing on the meaning of that word as used in CWA §402.

The CWA defines "discharge" in relevant part as the addition of any pollutant into "navigable waters". **Ine term "navigable waters" is defined as "waters of the United States" (33 U.S.C.A. §1362(7)) and goes beyond traditional notions of navigability, **Ine term "navigability, **Ine term "navigable waters" is defined as "waters of the United States" (33 U.S.C.A. §1362(7)) and goes beyond traditional notions of navigability, **Ine term "navigable water through its injecting waste directly into surface water through its injection wells. Nor does BSC contend that it is injecting waste into groundwater. Even assuming arguendo that it is, however, well injections into isolated groundwater do not constitute "discharges" under the CWA. **Ine term "Many provisions of the CWA expressly refer to both "ground waters" and "navigable waters." For example, CWA §\$102(a) and 104(a)(5) direct EPA to develop programs to monitor

The statutory definition of "discharge," although somewhat circuitous, is ultimately clear. Under CWA §502(16), "[t]he term 'discharge' when used without qualification includes a discharge of a pollutant, and a discharge of pollutants." 33 U.S.C.A. §1362(16). The terms "discharge of a pollutant" and "discharge of pollutants" are defined in relevant part as "any addition of any pollutant to navigable waters from any point source * * *."

Id. §1362(12)(A). The phrase "'navigable waters' means the waters of the United States, including the territorial seas."

Id. §1362(7).

Although not directly relevant here, the term "discharge of a pollutant" also includes the "addition of any pollutant to the waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft." Id. §1362(12)(B).

[§] See. e.g., GAF Corp., 389 F. Supp. at 1383 (citing cases).

BSC does not allege in its Petition that its wells inject waste into groundwater with a direct hydrologic connection to surface water. Today's decision should not be read to suggest that waste disposal into such groundwater may never be a "discharge" under CWA §402.

and eliminate the pollution of "the navigable waters and ground waters." 33 U.S.C.A. §§1252(a) and 1254(a)(5). Section 106(e)(1) prohibits certain grants to states that fail to monitor "the quality of navigable waters and to the extent practicable, ground waters." Id. §1256(e)(1). Section 304(a)(2)(A) requires EPA to publish information on the integrity "of all navigable waters, ground waters, waters of the contiguous zone, and the oceans." Id. §1314(a)(2)(A). If groundwater were within the meaning of "navigable waters," the specific references to groundwater in these provisions would be redundant. A better interpretation of the CWA, one which gives meaning and effect to every term, 19/1 is to view groundwater as outside the scope of "navigable waters." Because a "discharge" is the addition of a pollutant to "navigable waters," well injection into isolated groundwater cannot be a "discharge" under the CWA.

Further light is shed on the issue by CWA §402 itself. Section 402 uses the word "discharge" (or forms thereof) numerous times. The sole reference to well injection in CWA §402, however, does not use the term "discharge," but instead refers to

See, e.g., Reiter v. Sonotone Corp., 442 U.S. 330, 339 (1979) ("In construing a statute we are obliged to give effect, if possible, to every word Congress used."); United States v Menasche, 348 U.S. 528, 538-39 (1955) (same).

See Kelley, 618 F.Supp. at 1104-07. Sometimes the distinction between groundwater and surface water is elusive.

See United States v. Weisman, 489 F. Supp. 1331, 1347 (M.D. Fla. 1980). It is unnecessary to address the precise boundaries of these terms in this case.

"the disposal of pollutants into wells." 33 U.S.C.A. §1342(b)(1)(D) (emphasis added). Section 304(f) likewise refers to "the disposal of pollutants in wells or in subsurface excavations." Id. §1314(f)(2)(D). The use of the word "disposal" to describe well injection, despite the consistent use of the word "discharge" elsewhere in CWA §402, indicates that the terms have different meanings, and that well injection into isolated groundwater is something other than a "discharge." There is no evidence that the use of both "discharge" and "disposal" was the result of carelessness, or that these terms are used interchangeably throughout the CWA. Indeed, to interpret the words as

Other portions of the CWA likewise distinguish between "discharge" and "disposal." For example, Section 201(b) states that

synonymous would defeat the effect of the express definition of

art.

"discharge" in CWA §502, which establishes that word as a term of

[w]aste treatment management plans and practices shall provide for the application of the best practicable waste treatment technology before any <u>discharge</u> into receiving waters, including reclaiming and recycling of water, and confined <u>disposal</u> of pollutants so they will not migrate to cause water or other environmental pollution * * *.

33 U.S.C.A. §1281(b) (emphasis added). The words "confined disposal" here describe the placement of waste as an alternative

See, e.g., Tafoya v. U.S. Dep't of Justice, LEAA, 748 F.2d 1389, 1391-92 (10th Cir. 1984) (use of different terms within statute evidences intentional differentiation); Lankford v. Law Enforcement Assistance Administration, 620 F.2d 35, 36 (4th Cir. 1980) (same); United States v. Wong Kim Bo, 472 F.2d 720, 722 (5th Cir. 1972) (same).

to "discharges" into surface water subject to permits under the CWA.

This textual analysis of the CWA and the federal court decisions cited above show that well injections to isolated groundwaters are not "discharges" under CWA §402. Thus, these well injections do not fall within the exclusion from the definition of solid waste in RCRA §1004(27). BSC's contention to the contrary collides head-on not only with the meaning of the word "discharge," but also with basic policies and legal principles that flow directly from the statutes at issue. well injection were a "discharge," no well would ever be subject to regulation under RCRA no matter how toxic the waste. 13/ RCRA itself, however, makes crystal clear that its provisions extend to injection wells. RCRA §3004(f), for example, expressly requires EPA to regulate the underground injection of certain hazardous wastes into deep injection wells. See 42 U.S.C.A. §6924(f). Another section prohibits hazardous waste injection into or above certain formations. See id. §6939b. _ These two provisions, both added by the 1984 amendments to RCRA, reflect the bedrock congressional policy and consistent Agency position that the RCRA regulatory program applies to injection wells used to inject hazardous waste. See 52 Fed. Reg. 45,792-93

BSC argues that RCRA is inapplicable to wells covered by an existing NPDES permit, as well as those subject to any future NPDES permits. BSC Reply at 20. Because well injection is a "discharge" under BSC's theory, this alleged exclusion from RCRA would cover virtually every UIC well.

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(December 1, 1987); 50 Fed. Reg. 28,712 (July 15, 1985). If well injections were excluded from the definitions of "solid waste" and "hazardous waste" under RCRA, as BSC argues, these key RCRA provisions would be rendered meaningless nullities.

Finally, BSC's reliance on the Seventh Circuit's decision in U.S. Steel Corp. v. Train, 556 F.2d 822 (7th Cir. 1977), is misplaced. There, the court held that waste injected into wells is a "pollutant" subject to regulation under the CWA, but it did not decide the precise issue presented here, i.e., whether well injections are "discharges" subject to permits under the CWA, and thus excluded from regulation under RCRA. Id. at 851-53.

Although the court loosely used the word "discharge" (rather than "disposal") to describe well injection (id. at 852), its reliance on the position of EPA's General Counsel (id. at 852), its reliance on the position of EPA's General Counsel (id. at 852 n.61) undercuts any suggestion that it deemed well injections to be "discharges" as defined in CWA §502(16). If n view of the sweeping statutory and regulatory changes since that decision, particularly the 1984 amendments to RCRA, I doubt that a court

As noted above, EPA did not justify this jurisdiction by arguing that well injection is a "discharge" under the CWA. Instead, it based its position on 33 U.S.C.A. §1342(a)(3), which requires the federal NPDES program to be subject to the same terms and conditions as the approved state programs, and on Section 1342(b)(1)(D), which requires an authorized state program to control well disposal. See U.S. Steel Corp., 556 F.2d at 851-53; See also Exxon Corp., 554 F.2d at 1318-19. The federal courts disagreed as to whether the CWA grants EPA authority over injection wells. Compare U.S. Steel Corp., 556 F.2d at 851-53 with Exxon Corp., 554 F.2d at 1317-31. EPA no longer asserts CWA authority over injection into isolated groundwater, but instead regulates these wells under the SDWA and RCRA §§3004(f) and (k), which expressly grant EPA regulatory authority over wells.

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would rely on $\underline{U.S.}$ Steel Corp. today to hold that BSC's wells are beyond the reach of protective regulation under RCRA.

II. The Applicability of the Corrective Action Requirements of RCRA §3004(u)

Having established that RCRA generally applies to UIC wells, the next issue is whether the specific corrective action requirements of RCRA §3004(u) apply. As noted above, UIC permittees of hazardous waste disposal wells need not go through the formal RCRA permit application process. Instead, UIC permittees may qualify for a RCRA permit-by-rule under 40 CFR §270.60(b). For UIC permits for Class I hazardous waste wells issued after November 8, 1984, one requirement for obtaining a RCRA permit-by-rule is compliance with 40 CFR §264.101, which incorporates the statutory corrective action requirements of RCRA §3004(u). See 40 CFR §270.60(b)(3).

BSC contends that RCRA §3004(u) by its terms applies only to "issued" RCRA permits, and that BSC's RCRA permit-by-rule has not been "issued" within the meaning of that section. The distinction between permits-by-rule and those acquired by formal application, however, appears only in the implementing regulations, not in the statute itself. The word "issued" in RCRA §3004(u) and elsewhere in the statute plainly encompasses both kinds of permits. The natural import of the word is "to cause to come forth"

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or "to put forth." ¹⁵/ The Agency issues RCRA permits-by-rule by operation of its regulations just as it issues RCRA permits in response to formal applications. Only this reading of the word "issued" in RCRA §3004(u) is consistent with RCRA §3005(a), which directs EPA to require each person owning or operating a hazardous waste facility "to have a permit <u>issued</u> pursuant to this section." 42 U.S.C.A. §6925(a) (emphasis added). If BSC's permit-by-rule were not "issued" within the meaning of RCRA, the regulations authorizing permits-by-rule (as well as BSC's facility) would not be in compliance with RCRA §3005(a). ¹⁶/

BSC also argues that RCRA §3004(u) on its face applies only to a facility "seeking a [RCRA] permit." In UIC Appeal No. 85-8, BSC contends that it is not "seeking a [RCRA] permit" because its discharges are excluded from the definition of "solid waste." As

See The American Heritage Dictionary 680 (1982); Webster's Third New International Dictionary (unabridged) 1201 (1967).

BSC relies on an assertion by the Agency in 1980 that "RCRA permits will not be issued for UIC wells injecting hazardous wastes." BSC Reply at 12 (quoting 45 Fed. Reg. 33,326 (May 19, 1980)). This statement was not, however, an interpretation of RCRA §§3004(u) or 3005. The context makes clear that the word "issued" was being used, not in its broad statutory sense, but simply to describe permits obtained through the formal application process (as opposed to permits-by-rule). Id. Moreover, even if BSC's reading of this statement were correct, the 1984 amendments to RCRA make clear that the RCRA permit program applies to UIC wells used to inject hazardous waste. BSC also cites an Agency interpretation of §3004(u) as applying only to facilities required "to obtain a Subtitle C [RCRA §3005] permit." BSC Reply at 13 (citing 50 Fed. Reg. 28,711-12 (July 15, 1985)). As explained above, however, BSC's RCRA permit-by-rule is a RCRA Subtitle C permit.

shown above in Section I, however, this assertion is incorrect. In UIC Appeal No. 86-13, BSC states the argument somewhat differently; it contends that its ability to obtain a RCRA permitby-rule does not transform it into one "seeking a [RCRA] permit." BSC appears to interpret the phrase "seeking a [RCRA] permit" to require a specific subjective intent or desire on its part before Section 3004(u) applies. This is not the case. BSC's insistence that it seeks only a UIC permit under the SDWA, RCRA §3005(a) requires the Agency's rules to compel BSC to obtain a RCRA permit, and the RCRA regulations do so. 11/ A RCRA permitby-rule is merely one kind of authorization by which BSC is allowed to comply with RCRA. In other words, because BSC seeks authorization to inject hazardous waste into its wells, by necessity it seeks both a UIC permit and a RCRA permit. Its ability to obtain authorization through a RCRA permit-by-rule serves only to streamline its paperwork requirements, not to dilute its substantive obligations under RCRA and the regulations implementing that statute. See 52 Fed. Reg. 45,792-93 (December 1, 1987).

In its reply brief in UIC Appeal No. 86-13, BSC relies on 40 CFR §264.1(d), which states that the Part 264 RCRA standards apply to UIC permittees "only to the extent they are required by [40 CFR §144.14]." Because Section 144.14 does not mention the

Injection wells that dispose of hazardous waste are specifically included among those facilities that must have a RCRA permit. 40 CFR §270.1(c)(1)(i).

RCRA corrective action requirements, BSC argues that these requirements cannot be imposed through a UIC permit. BSC has identified an apparent error in the rules. Despite the limitation set forth in Section 264.1(d), Section 270.60(b)(3) expressly requires the owner or operator of a hazardous waste injection well to comply with the RCRA corrective action requirements to qualify for a RCRA permit-by-rule. $\frac{18}{}$ The apparent conflict must be resolved in favor of requiring compliance for two reasons. First, RCRA §3004(u) unequivocally requires all RCRA permits issued after November 8, 1984, (whether by formal application or by rule) to impose corrective action requirements under that section. Any conflict between this statutory command and the regulations (40 CFR §§144.14 and 264.1(d)) must be resolved in favor of the statute. Second, as a practical matter, BSC's resolution of the regulatory conflict in favor of noncompliance would leave it without any authorization under RCRA

As noted above, 40 CFR §270.60(b)(3) conditions eligibility for a RCRA permit-by-rule on compliance with 40 CFR §264.101, which incorporates the RCRA corrective action requirements into the rules. The Agency promulgated Section 270.60(b)(3) after Section 264.1(d). Compare 50 Fed. Reg. 28,752 (July 15, 1985) with 45 Fed. Reg. 33,221 (May 19, 1980). Section 270.60(b)(3) therefore represents the most recent expression of the Agency's position on the requirements for a RCRA permit-by-rule.

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(by rule or by permit obtained through the formal application process) to dispose of its hazardous waste. 19/

Finally, BSC argues that RCRA corrective action requirements are unnecessary and redundant because the UIC regulations contain corrective action requirements. Unlike the comprehensive requirements of RCRA §3004(u), which call for corrective action for all hazardous waste releases from a solid waste management unit regardless of when the waste was placed in the unit, the UIC regulations compel corrective action only where certain existing wells are "improperly sealed, completed, or abandoned" and only as necessary "to prevent movement of fluid into underground sources of drinking water." See 40 CFR §144.55. The short answer to BSC's contention is that Congress has directed that more extensive requirements be imposed under RCRA §3004(u) where a UIC well is used to dispose of hazardous waste.

III. The Imposition of the RCRA General Facility and Post-closure Standards

The permit at issue in UIC Appeal No. 85-8 includes terms incorporating various general facility and post-closure standards under Part 264 of the RCRA regulations. BSC objects to these conditions based on 40 CFR §264.1(d), which (as noted above) states that the Part 264 RCRA standards apply to UIC permittees

By copy of this order, I am directing the Acting Assistant Administrator for Water and the Assistant Administrator for Solid Waste and Emergency Response to propose revisions to the regulations to eliminate the inconsistency described above.

"only to the extent they are required by [40 CFR §144.14]." In turn, Section 144.14 applies only to well injection of hazardous waste "accompanied by a manifest." BSC contends that Section 144.14 is inapplicable because BSC is not required to manifest the waste injected into its wells.

Region V correctly responds that the contested provisions are authorized by Sections 144.52(a)(9) and (b)(1) of the UIC regulations, which state that UIC permits shall include "on a case-by-case basis such additional conditions as are necessary to prevent the migration of fluids into underground sources of drinking water" and "to provide for and assure compliance with all applicable requirements of the SDWA and Parts 144, 145, 146 and 124 [of the UIC regulations.] These provisions provide sufficient legal authority for imposing the conditions at issue. Sections 144.14 and 264.1(d) were promulgated to streamline the regulation of wells under both the RCRA and UIC programs. do not diminish the obligation and authority of permit writers under Section 144.52 to ensure, through additional conditions, that UIC wells do not contaminate underground sources of drinking water or otherwise contravene the requirements of the SDWA and its implementing regulations.

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Conclusion

For the reasons set forth above, BSC's petitions for review are denied.

So ordered.

Dated: JAN 1 9 1989

Lee M. Thomas Administrator

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY Facility Inspection Form for Compliance with Underground Injection Control Requirements (Permit and Inspection Fee Form)

Facility Name: LTV STEEL CO	IEPA File Heading: LTV STEEL
Facility Address. Hennepin Works	IEPA I.D. Number: LSSROLOGOE County: Patram
P.O. Box 325	County: Patnam
Hennepin, IL 61327	U.S. EPA I.D. No.: ILD coc781591
Facility Contact: Paul Schlingman	Inspector(s) Name: David 5-Relalf
Title: General Supervisor - Operations Support Se	11/262
Well Name: WOW-I	Date of Inspection: 3/13/39
1. Well Classification Haz. NH	Time (From) 10.00am (To) 10.50am
Class II Class III Class IV Class V	
Comments:	3
2. Authorization	· ·
IEPA Permit:	Permit Number: UEC-004-WI-JL
Authorization By Rule: Emergency Permit: Other:	Permit Number:
3. Operational Status	
Operating: Standby: Inoperable:	
Comments:	
	RECEIVED
	MAR 1 6 1989
	IEPA-DLPC

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Remarks: On Mouch 13. 1989 a guarter & PIF impection was conducted
Remarks: On Mouth 13. 1989 a quenterly PIF impection was conducted at LTV Skel in Hennepin O met well Paul Schlingman in his office, We lingly discussed were twell operation lupose movements to the well.
office, We lively discussed were twell operation before proceeding
& the well.
One of the filter is still down
all gauges and recordes were workers within security ranges
John Richardson
John feebardson

OH:bls/0070E,sp

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Illinois Environmental Protection Agency P.O. Box 19276, Springfield, IL 62794-9276

217/782-9720

LTV Steel STP NPDES Permit No. IL0002631 Report of Compliance Sampling

February 16, 1989

Mr. Cal Baxter LTV Steel Hennepin, Illinois 62327

Dear Mr. Baxter:

On December 7, 1988, an NPDES Compliance Sampling Inspection was conducted at the subject facility by personnel from the Rockford Regional Office. From the report supplied by the field inspector, it was noted that proper operation and maintenance was being provided.

This Agency would like to commend the operating staff for their efforts. Should any questions arise pertaining to this letter, please direct them to me at the above-indicated telephone number.

Sincerely,

Jan Hacker

Jan Hopper Compliance Monitoring Unit Division of Water Pollution Control

JH:bab

cc: Compliance Assurance Section Records Unit FOS, Region 1

<i>#</i>	





217/782-6761

Refer to: 1558010006 -- Putnam County

Hennepin/LTV Steel Co.

ILD 000781591

UIC No Migration Petition - USEPA Land Ban

December 23, 1988

USEPA, Region V Attention: George Hudak UIC Section, Water Division 5WD-TUB 230 South Dearborn Street Chicago, IL 60604

Dear Mr. Hudak:

The Illinois Environmental Protection Agency (IEPA), in conjunction with the Illinois State Geological Survey (ISGS), has completed its review of the Land Ban Petition submitted on behalf of LTV Steel Company by Golden Strata Services. The IEPA's comments can be found in Attachment A of this letter and the comments compiled by the ISGS, entitled "Comments Regarding Land Ban Petition for LTV Steel Company, Hennepin, IL, "comprise Attachment B.

The lead reviewer at IEPA is John Richardson and review assistance was provided by Jill Withers and Doug Clay. The ISGS reviewer is Ed Mehnert.

Due to contractual difficulties and policies of the Illinois State Water Survey, comments from them have not been received to date. They will be forwarded directly to you.

The ISGS posed questions to the IEPA. Since USEPA is responsible for the final review of the petition, we, at IEPA, direct those questions to USEPA.

This letter and attachments document, in writing, the information sent to you in Word Perfect format.

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Page 2

If you have any questions, please contact Ed Bakowski or John Richardson at 217/782-6761.

Very truly yours,

Kawrence W. Eastep, P/E. Manager

Permit Section

Division of Land Pollution Control

LWE: JPR: ct/4012j, sp1-2

Attachments

cc: Division File 🗸 Rockford Region John Richardson Ed Bakowski Doug Clay Jill Withers Tom Cavanagh ISGS - Ed Mehnert ISWS - John Nealon

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Attachment A

- Vol. 1, page 2: The Well Location was given as 390' from south line and 791' from west line; however, the location was given as 390' north and 191' west of the SE corner of the SW quarter of the SW quarter in Vol. 1, page 3-1.
- 2. There is no signed Certification of Petition Information.
- The depth to the top of the Mt. Simon does not correspond to the depth which can be calculated by summing the thicknesses of each unit above it. The calculated value is 3,000 feet and the depth in Vol. 2, Figure 1-1, is 3100 feet.
- Vol. 1, page 2-2: the petitioner injects D002 waste (pH \langle 2), as well as K062 (Waste Pickle Liquor). D002 was not identified as part of the wastestream.
- Initial Completion Stimulation: Was the well stimulated upon completion? If so, indicate the type of stimulation that was used, along with pressures and volumes of fluids must be provided. Also, the effects of stimulation upon the injection and confining formations must be addressed.
- Vol. 1, Figure 5-15: Is the map in Figure 5-15 taken from a published document? If so, what is the source, when was it published, and what was the distance to the nearest event?
- Vol. 1, page 8-4: The petition states the model was constructed with seven layers, but only five were identified. Figure 8-1 in Vol. 2 shows eight layers.
- Vol. 1, page 8-13: Explain why the viscosity of the waste is assumed to be the same as the viscosity of the formation fluid. In Vol. 1, page 6-2, the viscosities were given as 1.87 and 0.8 centipoise, respectively.
- Vol. 1, page 8-27: Why is the formation fluid density estimated no more accurately than + 50%?
- 10. Vol. 1, page 8-29: Why are the lateral and vertical permeabilities provided no more than + 100% accurate?
- 11. Vol. 1, page 8-32: Explain why a reference is made to "injection zone" shales at + 2826 feet, a depth which corresponds to the center of the confining Zone.
- 12. Vol. 1, page 10-8: Wastestream Compatability. The special core flow analyses did not appear to have been conducted with waste pickle liquor. What fluid was used for those tests? The test, referenced in Appendix 5-III, was conducted for the freshwater annulus flush - not compatability.

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Page 2

- 13. Vol. 3, page 3: The petition indicates there are 729 feet of overburden between the top of the injection interval and the bottom of the USDW. Calculations from the data provided indicate there are 597 ft.
- 14. Vol. 3, pages 4 and 9: The Petition indicates that, after injection ceases, pressure gradients will become negative, redirecting transport back into the injection interval. Does this mean waste will move downard? Explain how this can occur, given the higher hydraulic head of the Mt. Simon?
- 15. Vol. 3, page 6: Justify why the vertical waste movement into the overlying shale can be taken to be 2 ft. for the historical period (19 years) when Figure 6 shows the position of the pH = 2 contour (based on a pH of O for injected waste) at 1.5 ft. into the overlying shale after 680 days of simulated injection.
- 16. Vol. 1, page 5-23: What are the TDS contents for the lowermost USDW (Franconia), the confining zone (Eau Claire), and the injection zone/ injection interval (Mt. Simon and Elmhurst)?
- 17. Vol. 3, page 5: Why are the viscosity, TDS and specific gravity of the waste estimated using a constituent-analysis technique when these parameters are measured each month, as a permit requirement?
- 18. Vol. 1. page 6-4:
 - What porosity value was used for the confining zone in the model? a)
 - What is the compressibility of the confining zone material? What **b**) value was used in the model?
 - What confining zone thickness was used in the model? c)
 - What is the storage coefficient of the confining zone? What value d) was used in the model?
- 19. Vol. 1, page 6-2:
 - What is the compressibility of the injection zone material? What a) value is used in the model?
 - What is the storage coefficient of the injection zone? What value is b) used in the model?
- 20. Vol. 1, page 6-2: The petition needs to include information on the following formation fluid characteristics:
 - a) рН
 - b) temperature

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Page 3

- c) TDS
- d) TSS
- common cations and anions, such as Na, Ca, Mg, Ba, Fe, Zn, Cl, SO4, e) SO_2 , CO_3 , and HCO_3
- 21. Vol. 1, page 6-2: what are the TDS and TSS values for the injected waste? (Also see #17)
- 22. Vol. 1, page 10-8: The petition needs to include information on compatability test results between the injected waste and the following:
 - injection zone rock matrix a)
 - confining zone rock matrix **b**)
 - injection zone fluids c)
 - confining zone fluids. d)

This should include the type of test, temperature parameters, pressure parameters, the date, and the results.

- 23. Vol. 1, page 10-8: The petition does not contain adequate information to describe the chemical/physical characteristics of the injected waste.
- 24. Vol. 3, page 3: The petition does not specify the exact portions of the injection zone which comprise the assumed net thickness of 40 feet which is accepting fluid.

JR:ct/4012j,spl-5

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COMMENTS REGARDING LAND BAN PETITION FOR LTV STEEL COMPANY, HENNEPIN, IL

The following comments are organized into general comments pertaining to the overall document, specific comments referenced to the document page number, and non-fatal comments also referenced by page number. The non-fatal comments do not impact approval of the petition, but should be addressed for completeness and clarity of the document. Non-fatal comments are denoted by an asterisk(*) following the page number.

GENERAL COMMENTS

- 1) All references cited should be furnished. It may be best to include one reference section at the end of the document.
- 2) The majority of the comments require clarification of wording in the document or providing additional supporting information/data. Sections of the document which require attention include model application, model calibration, and input data for the model.

SPECIFIC COMMENTS

Page No. Comment

- 1-3* Referenced facility name is incorrect.
- Figure 1-1 The range of permeability values for the Mt. Simon listed on this figure does not match the values listed in Appendix 5, Volume II.
- 2-2 Need historical characterization of waste for model input.
- 2-4 & 7-2 Identify the starting date for volume of injected fluid. Also, identify if this volume includes waste, blow-down water, and/or fresh water flushes. The volume should include all fluid injected into the Mt. Simon.
- Provide additional data for the DST-- when was it run, what interval was tested, etc.
- What data are available to show that the water table, as defined as the top of the zone of saturation, is 75 feet below the ground surface? In most of Illinois, the depth below ground surface to the water table is 3 to 10 feet. The 75 foot depth may be the potentiometric surface of a deeper aquifer.
- 4-10* The number of penetrations in the first paragraph do not match the number of wells listed in the same paragraph.

Compare the TDS estimates from electric log interpretation with any water quality data available from DSTs or other sources. Also, explain any discrepancies between the estimates and field data.

<u>Page No.</u> 4-15	Comment Need to provide references for all references cited in the chapter.
5-4*	In Putnam County, pre-Illinoian, Illinoian, as well as Wisconsinan deposits overly the bedrock materials.
5-7*	Please note that the Sandwich Fault is upthrown to the northeast on its southeastern end.
5-11*	The proper reference for defining the Mt. Simon Aquifer to include the Mt. Simon Sandstone and the Elmhurst Sandstone is Suter et al., ISWS/ISGS Cooperative Ground-Water Report 1.
	Is the description of the Eau Claire site specific or general? If general, this description is not consistent with description in ISGS Bulletin 95.
5-14	Were the upper members of the Eau Claire (Lombard and Provisio) identified at the site? What are their lithologies and thicknesses?
	What was distinguished based on dolomite content? The Ironton from the Galesville? The Ironton-Galesville from the Provisio?
5-22	The injection interval is defined as the geologic layers actively receiving waste. Depths given for the injection interval are 3109 to 4843 feet. However, on page 6-2, it is stated that only 40 feet accept waste. Please clarify and indicate the elevation of the zone or zones accepting fluid.
5-27	Identify whether these are horizontal or vertical permeabilities.
	The Ironton is identified as being "tight", please provide data to support this claim.
Fig 5-15	Draw circle with 50 km radius or provide scale.
5-36	Give direction of groundwater gradient.
6-2	Are the values listed here typical, average or some other values? Also, do they pertain to the 40 foot section receiving waste or to the formation from 3109 to 4843? Sources of data and corrections used must be provided or properly referenced. Specific comments follow:
	Net thickness receiving waste which MITs were used to identify this thickness? Porosity were logs calibrated with core values? Dispersivity justify use of these values. Specific gravity formation fluid data obtained from DST sample? How does formation specific gravity vary with depth? Compressibility does pore volume mean formation? Gradient vertical or horizontal? give direction.



- Page No. 7 - 1 Since surface pressure was used to calibrate the model, the input parameters pertinent to head loss in tubing and well bore must be given and justified. 7 - 7 The high value for average monthly volume seems too low. Dividing the cumulative volume injected by the number of months operated gives approximately 600,000 gallons/month, which is greater than the high value given. Seven layers were modeled, but only five units are described. What 8-4 are the other two units? You indicate that ignoring flow into the Granville Basin is 8 - 7 considered conservative. This argument assumes that the waste is denser than any fluid contained in the Basin. Do you have any data to support this assumption? 8 - 8 What is the reference for the compressibility data? 8-10 Worst case scenario is described as flow through 40 feet of the injection interval. If the field test indicated that only 40 feet of the formation is accepting fluid, how is the use of flow through 40 feet considered to worst case? 8-11 What data have been provided to show that the geologic materials are isotropic? In terms of defining lateral extent, it seems that a more conservative approach would be to assume anisotropic conditions. 8-14 The following statement: "The geologic analysis justifies the assumption of no earthquakes." is not consistent with data presented on Figure 5-15. Please correct this statement. 8-24 Question for IEPA: CFR Section 148.21.a.6 seems clear on requiring sensitivity analysis if input data for the model contributes significantly to the uncertainty. No sensitivity analysis is presented here. I believe their approach of all conservative values precludes need for sensitivity analysis, but I challenge some of their conservative assumptions (see comment for p. 8-10). 8-30 Dispersivity values do not match values listed on page 6-2. to reference and justify the values used. The dip angle was ignored due to its minor influence. This may be an acceptable assumption during active injection, but address this assumption for the 10,000 year migration scenario and the fact that there is a density difference between the injected and formation fluids.
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to define the waste front?

The extent of waste movement is given, but what concentration is used

8-32

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Page No.	Comment
9 - 2	The cone of influence definition is not consistent with the definition on page 28134, Federal Register, 7/24/88.
9 - 8	Identify private sources of well information.
10-4*	Define "typical". Historical average or a range of values would be more appropriate.
10-5*	Are there any compounds in the waste which would catalyze the corrosion reactions for Hastelloy or the fiberglass reinforced epoxy?
10-7*	Dowell Epoxy Resin cement and diesel oil discuss operational experience which has demonstrated their respective chemical stability at this site.
10-8*	Identify the type of solution used in the swelling clay tests. Was a NaCl or other type of solution used to determine the impact of swelling clays? If a nonacidic solution were used for this test, how does one conclude that acid injection would not damage the formation?
11-1	Question for IEPA: In terms of timing, do the tests run in 11/87 meet the requirements of the petition demonstration?
	For the stationary slug test, identify the flow rate, tool sensitivity, and type and temperature of injected fluid.
	Based on the way the stationary test was run, determine the minimum leakage which could be detected. Perhaps setting the tool closer to the top of the packer is justified.
11-2*	Clarify date RAT was run: text indicates 11/25 and field print indicates 11/18.
Appendix 8-	I
General	Discuss and justify general modeling approach. It appears that conservative transport and one fluid density were assumed.
4	Did Clifford's work discuss gradients in the Mt. Simon in Ohio? If so, discuss the appropriateness of assuming such gradients for the Illinois Basin.
5	Was the specific gravity data used during calibration measured or calculated? Since surface pressures were used for calibration, input parameters for head loss in the tubing and well bore must be given

available?

parameters for head loss in the tubing and well bore must be given. What data were used to calibrate the model-- maximum pressure, minimum pressure or some average value? Were strip chart records

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Page No.	Comment The selection of this time period, where only 8 data points are available seems suspect. Calibration with data from the initial injection test, may have been better for two reasons. During the initial test, nearly 700,000 gallons were injected compared to 136,700 gallons for the test used for calibration. In addition, it seems that more than 8 data points would be available for the initial test. Please justify the data used for model calibration.
6	Discuss why pH=2 contour was used to define waste movement. Would other hazardous waste components travel farther?
8	Show calculations. The results presented are not reproducible based on data in document.
9	Show calculations.
10	Provide reference for equation 2.

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Note File

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY Facility Inspection Form for Compliance with Underground Injection Control Requirements

Facility Name: LTVSTEEL COMPANY I	EPA File Heading: LTV STEEL
Facility Address. Hennepin Works I	EPA I.D. Number: 1558010006
40 12 110	ounty: Putnam
~	I.S. EPA I.D. No.: ILDQQQ181591
Facility Contact: Paul Schlingman I	nspector(s) Name: David S. Relzlaff
Title: General Supervisor-Operations Support	
Well Name: WDW-/	ate of Inspection: 11/29/82
1. Well Classification Haz. NH	
Class II Class III Class IV Class V	
** Tables d'America (Elling d'Agencia	
Comments:	
2. Authorization	t ×
Authorization by Rule:	Permit Number: <u>UIC-004-WI-JL</u> Permit Number:
3. Operational Status	
Operating: Standby: Inoperable:	
Comments: Injection events occur	2111
	1 on weekends the last
pren was on 11/27-28/88.	Injected 98, 900 and low
acid and 5,240 gallons	Injected 98,900 gallonner

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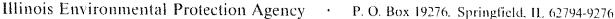
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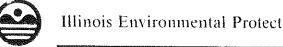
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Remarks: On Tuesday, November 29, 1988 an Annual UIC inspection was
conducted at LTV Steel's Hennepin Works.
I met Paul Schlingman at his office. I proceeded to go over his
records (permit application, strip charts, maintenance records,
analytical data). All appeared to be in order. We then went to the
laboratory to look at the sampling sheets.
We then went to the treatment plant. The gauge and strip chart
values were recorded and the operating records were checked.
A sample of Waste Pickle Liquor was collected. Chain of
custody procedures were followed.
No violations were observed during this inspection.
DH:b1s/0070E,sp

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217/782-6761

Refer to: 1558010006 -- Putnam County

LTV Steel ILD000781591

W.I.C. Compliance File

July 19, 1988

LTY Steel Company - Hennepin Works

ATTM: Paul Schlingman Hennepin, Illinois 61320

Dear Mr. Schlingman:

The Agency is in receipt of your July 6, 1988 response(s) to our June 23, 1988 Compliance Inquiry Letter. Your response(s) has been reviewed and the apparent violation(s) of Section(s) 702.141 is now considered resolved. Also, the letter you enclosed with your response and a conversation between John Richardson and Terese Laciak, of ARRO Laboratory, Inc., have clarified the matter regarding the reported values for Total Organic Halogens.

If you have any questions, please contact John Richardson at the number listed above.

Sincerely,

angela aye Din

Angela Aye Tin, Manager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT: JR: dls/2111j, 23

cc: Division File Control Region Rockford Region Pave Retzlaff Steve Gobelman John Richardson

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LTV Steel Company

RESPONSE TO 6/23/88CIL.

July 6, 1988

1558010001 Putnam Co. LTV Steel Co. LLD Cro 181591 UTC Peopliance 216

Illinois Environmental Protection Agency Division of Land Pollution Control 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276

Attention: Angela Aye Tin, Manager

Technical Compliance Unit

Compliance Section

Reference: UIC Compliance Inquiry Letter Dated June 23, 1988

IEPA No. 1558010006

Dear Ms. Aye Tin,

In response to the apparent violations as pointed out in your letter of June 23, 1988, we offer the following explanations.

Attachment A, Paragraph 1A - The concentration of zinc was reported as 167 mg/l. We have checked with the laboratory and can not fully explain the apparent high level of zinc. The appearance of this sample was not typical of previous waste pickle liquor samples, and therefore, we have concluded that a sampling anomaly may have occurred. We will check future samples closely to prevent reoccurrence. In addition, to assure future compliance, we are instituting a new QA/QC procedure of occasionally splitting samples and employing a second outside laboratory to perform analyses. Subsequent analyses of samples taken yielded levels of 16.4 and 8.0 mg/l zinc.

Attachment A, Paragraph 1B - This indicates that our monthly operating report for the month of May 1988 showed that the injection cycles may not have maintained their required differential pressure of at least 400 PSI. We have re-checked our charts and our pressure control equipment and have concluded that as the ambient temperature increased, the annulus pressure control equipment became slightly out of calibration. We have corrected this by increasing the annulus pressure set point to assure that the pressure will be higher than the required minimum of 400 PSI. We have also given specific operating instructions to the operating personnel that requires that they not totally rely on the control equipment. In addition, they will observe the differential pressure and take any necessary action to maintain the required 400 PSI differential settings.

JUL 1 1 1988

We have also included with this letter the response from our contract laboratories to the question concerning the explanation to "appears all inorganic" to the values in our monthly reports for Total Organic Halogens. We presume that this explanation will answer your questions concerning the reported comments.

P.N. Schlingman, General Supervisor Operations Support Services

cc: R.V. Norell L.A. Szuhay file

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In cas-Natio

INDIANA DEPARTMENCE OF ENTRIONMENTAL MANAGEMENT OFFICE OF SOUD AND HAZARDOUS WASTE MANAGEMENT P.O Box 7035 Indianapolis, IN 46207-7035

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EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete. State Form 11865

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217/782-6761

Certified # P574563215

Refer to: 1552010006 -- Putnam County

LTV Steel 1LD000781591 Compliance File

U.I.C. COMPLIANCE INQUIRY LETTER

June 23, 1988

LTV Steel Company - Hennepin Works Attn: Paul Schlingman Hennepin, Illinois 61320

Dear Mr. Schlingman:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 III. Adm. Code, Subtitle G and to inquire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent violations. The Agency's findings of apparent non-compliance in Attachment A are based on a June 17, 1988 review of documents submitted to the Agency to demonstrate compliance with the requirements of Parts 702 and 730.

Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. These resolution dates are not to exceed 60 days from the date of the above referenced inspection and/or record review. The written response should be sent to the following:

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Fost Office Box 19276
Springfield, Illinois 62794-9276

In addition, please include an explanation of how your contract lab determined that the 22.00 percent of Total Organic Malogens, reported for the month of May, "appears all inorganic." This explanation should answer the question discussed in our phone conversation on June 15, 1988, regarding Total Organic Malogens in your April Operating Report.

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Page 2

Further, take notice that non-compliance with the requirements of the Illinois Environmental Protection Act and rules and regulations adopted thereunder may be the subject of enforcement action pursuant to the Illinois Environmental Protection Act, III. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq.

If you have any questions regarding the above, please contact John Richardson at the number listed above.

Sincerely,

Orgela Oye Dei

Angela Aye Tin, Manager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT:JR:jd/1722j/99-100

cc: Division File Rockford Region Dave Retzloff Steve Gobelman John Richardson

> HAC AAT

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Attachment A

- 1. Pursuant to 35 III. Adm. Code Section 702.141, the permittee must comply with all conditions of his/her permit. Any permit noncompliance constitutes a violation of the Illinois Environmental Protection Act. You are in apparent violation of Section 702.141 for the following reasons:
 - A) Section I. B. 1. c. of your facility's permit limits the concentration of zinc in the injected waste stream to 75 mg/L. The monthly operating report for May indicated that, for the week of May 8, 1988 through May 14, 1988, the concentration of zinc in the waste stream was 167 mg/L. This constitutes an apparent violation of your facility's permit condition governing waste parameters.
 - B) Section I. B. 1. d. of your facility's permit requires that, during waste injection, the annulus pressure will be at least 400 psig greater than the tubing pressure. The monthly operating report for the month of May, 1988 indicated that, for the injection cycles that occurred on May 1, 8, 9, 15, 16, 22, 23, 29, and 30, the required pressure differential was not maintained. This constitutes an apparent violation of your facility's permit condition governing annulus protection.

AAT:JR:jd/1722j/101

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Division of Air Pollution Control--Field Operations Section

TE: April 14, 1988

Date of Inspection: April 14, 1988

TO:

M. Zamco-APC-Spfld

Last Insp. Date: May 1, 1987

FROM:

R. Jennings/W. Kahila Region/Distirct: ______ II/201

LTV Steel Company SUBJECT: Facility:

I.D. #: 155 801 AAA

Address: Box 325 Hennepin, Illinois 61327

Contact/Title: Paul Schlingman, Superintendentphone: 925-2133

PRE-INVESTIGATION STATUS: Workplan - (U)A-1 INSPECTION FINDINGS:

No Violation - TAS Checked

- Form 177

This facility is a cold rolling, annealing, pickling and galvanizing operation for coil steel. The coil steel is received by rail and shipped by rail and truck.

There is a continuous annealing line that has gas-fired burners. Following this is a galvanizing pit that is electrically heated. The majority of the emissions are nitrogen oxides from the burners on the annealing line. The NO_{X} emissions are about 40 tons per year actual. The burners are less than 250 million BTU per hour total and do not have an NO_X emission limit.

There are two cold rolling mills where the only emissions are oil mist. Each line has an oil mist collection device.

There is an acid pickling line that has an acid fume scrubber. The scrubber is a packed-bed wet scrubber.

There are two natural gas fired boilers. The major emission is NO_{X} at about 65 tons per year. Again, due to size and age, there is $no NO_x$ emission limit.

There are also batch annealing furnaces and here also the major emission is NO_{X} at about 10 tons per year without an emission limit.

This year the anneal-galvanize line has been running fairly continuously and the cold rolling line have been operating about 80% of the time. Only one boiler is operated at a time.

All emission sources were inspected on this date. All emission sources have current operating permits.

WK/pm 0068F

APR 21 1983

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W. Kahila L. Benson I.D. File

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY Facility Inspection Form for Compliance with Underground Injection Control Requirements (Permit and Inspection Fee Form)

Facility Name: LTV STEEL CO.	IEPA File Heading: LTV Stee/
Facility Address. Hennepin Works	IEPA I.D. Number: 1558010006
P.O. Box 325	County: Putnam
Mennepin, IL61327	U.S. EPA I.D. No.: ILDQQQZ81591
Facility Contact: Paul Schlingman	Inspector(s) Name: David S. Retelast
Title: General Supervisor Operations Support Se	rvices
Well Name: WOW /	Date of Inspection: April 26, 1988
1. Well Classification Haz. NH	Time (From) 10-05a(To) 10:50an
Class II Class III Class IV Class V	
Comments:	1
2. Authorization	
IEPA Permit:	Permit Number: UIC-004-W1-JL
IEPA Permit: Authorization By Rule: Emergency Permit:	Permit Number: <u>UIC-004-WI-JL</u> Permit Number:
IEPA Permit: Authorization By Rule:	
IEPA Permit: Authorization By Rule: Emergency Permit: Other: 3. Operational Status Operating: Standby:	
IEPA Permit: Authorization By Rule: Emergency Permit: Other: 3. Operational Status Operating: Standby: Inoperable:	
IEPA Permit: Authorization By Rule: Emergency Permit: Other: 3. Operational Status Operating: Standby: Inoperable:	

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		Yes	<u>No</u>	<u> Yalue</u>
4.	Recording Devices			
a.	Are continuous recording devices present/operating for: (730.113(b)(2))			
	1. Injection Pressure*+ 2. Injection Flow Rate*+ 3. Volume*+ 4. Annulus Pressure*+ 5. Temperature 6. pH 7. Other (specify) 8. Other (specify)	V V V V V V V V V V V V V V V V V V V		2/ ps. 5 000' 42 = 80'
b.	Are gauges present/operating for:			
	1. Injection Pressure 2. Injection Flow Rate 3. Volume 4. Annulus Pressure 5. Temperature 6. pH 7. Other (Specify) feed 8. Other (Specify)	V V V V V V V V V V V V V V V V V V V		2/ 000 000 46/ #1-76FZ=93°F
c.	Are all of the above operating within permitted ranges?		**************************************	
Con	ments:			
		**************************************	-	

^{*}Required for Class I wells +Required for Authorization by Rule

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7.	Pre-Injection Storage Facilities and Trans	mission Line	<u>s</u>	
a.	Storage Facilities			
	1. Type of Storage A. Tanks 2 150,000 Gallon Tank B. Surface Impoundments	5		
		Yes	No	Comment
b.	Condition of Storage Facility	/11		
	1. Is adequate freeboard being maintained?	MA	na	
	2. Are the dikes maintained to prevent leaks?	<u> </u>	· warmen of terrorise and the second	
	3. Are the tanks maintained to prevent leaks?	V		
	4. Is there evidence of past leaks?			
	If so, what steps have been taken to correct and clean up the leak?			
Com	nments:			
		ì		
		<u>Yes</u>	<u>Мо</u>	Comment
c.	Tramission Lines			
	1. Are transmission lines being maintained to prevent leaks?	~ <u>~</u>		
	2. Is there evidence of past leaks?	vandra lie-accordent	V	-
	If so, what steps have been taken to correct and clean up the leak?			
Com	nments:			

UZVIZUZU PEPADITU

		Yes	<u>No</u>	Comment
5.	Reporting Requirements			
a.	Are reports submitted at least quarterly to the Agency on: (730.113(c)) 1. the physical, chemical and other relevant characteristics of the injection fluids+	<u> </u>		mon th ly
	 the monthly average, maximum and minimum values for injection pressure, flow rate and volume and annulur pressure+ 	<u> </u>	nondamen damanaman	monthly
	3. monitor well data+	NA	riteration de la company	
b.	Was the Agency notified within 24 hours of: (704.181(d)) 1. Any monitoring or other information which indicates that any contamination may cause an endangerment to a USDW+ 2. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDW's.+	~/A		
Con	ments:	/ <u>V / · /</u>	***************************************	
0011				
			* *************************************	
		Yes	No	Comment
6.	Special Conditions			
a.	Are all permit special conditions being met?			
Ехр	If no; lain:			

	The state of the s	





Illinois Environmental Protection Agency P.O. Box 19276, Springfield, IL 62794-9276

217/782-9720

LTV Steel
NPDES Permit No. IL0002631
Report of Compliance Sampling Inspection

March 25, 1988

LTV Steel Hennepin Illinois 61327

Gentlemen:

On January 21, 1988, an NPDES Compliance Inspection was conducted by personnel from the Rockford Regional Office. From the report supplied by the field inspector, it was noted that proper operation and maintenance was being provided.

This Agency would like to commend the operating staff for their efforts. Should any questions arise pertaining to this letter, please direct them to Jan Hopper at the above indicated telephone number.

Sincerely,

Moroque-

Kenneth R. Rogers, Manager Compliance Assurance Section Division of Water Pollution Control

KRR: JH: jas

cc: Compliance Assurance Section Records Unit FOS, Region 1 - Rockford



Refer to: 0316500002 -- Cook County

LTV Steel Company ILD056623598 Compliance File

COMPLIANCE INQUIRY LETTER

Certified # P124 733 861

February 4, 1988

LTV Steel Company Attn: Mr. Robert Voytko 3100 E. 45th Street Cleveland, OH 44127

Dear Mr. Voytko:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 Ill. Adm. Code Part 725 and to inquire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent violations.

The Agency's findings of apparent non-compliance in Attachment A are based on a January 13, 1988 review of documents submitted to the Agency to demonstrate compliance with the requirements of Subpart H.

Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. The written response, and two copies of all documents submitted in reply to this letter. should be sent to the following:

> Angela Aye Tin, Hanager Technical Compliance Unit Compliance Section Illinois Environmental Protection Agency Division of Land Pollution Control 2200 Church111 Road Post Office Box 19276 Springfield, Illinois 62794-9276

Further, take notice that non-compliance with the requirements of the Illinois Environmental Protection Act and rules and regulations adopted thereunder may be the subject of enforcement action pursuant to either the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq. or the federal Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sec. 6901 et seq.

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If you have any questions regarding the above, please contact Andrew Vollmer at 217/782-6761.

Sincerely,

angela aye In

Angela Aye Tin, Manager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT: AV: JR: tf/0304j, 51 ./ }

cc: Division File -Maywood Region Gary King Andy Vollmer John Richardson

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Attachment A

- 1. Pursuant to 35 Ill. Adm. Code 725.242(b), during the active life of the facility, the owner or operator shall adjust the closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instruments used to comply with Section 725.243. For owners and operators using the financial test or corporate guarantee, the closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before submission of updated information to the Agency as specified in Section 725.243(e)(5). The adjustment may be made by recalculating the closure cost estimate in current dollars, or by using an inflation factor derived from the most recent annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business as specified in subsections (b)(1) and (b)(2). The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year.
 - The first adjustment is made by multiplying the closure cost estimate 1. by the inflation factor. The result is the adjusted closure cost estimate.
 - 2. Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor.

You are in apparent violation of 35 Ill. Adm. Code 725.242(b) for the following reason(s): You failed to update your closure cost as required.

2. Pursuant to 35 III. Adm. Code 725.243(b)(7), whenever the current closure cost estimate increases to an amount greater than the penal sum, the owner or operator, within 60 days after the increase, shall either cause the penal sum to be increased to an amount at least equal to the current closure cost estimate and submit evidence of such increase to the Agency, or obtain other financial assurance as specified in this Section to cover the increase. Whenever the current closure cost estimate decreases, the penal sum may be reduced to the amount of the current closure cost estimate following written approval by the Agency.

You are in apparent violation of 35 Ill. Adm. Code 725.243(b)(7) for the following reason(s): You failed to update your Financial Assurance document as required.

3. Pursuant to 35 Ill. Adm. Code 725.247(a), an owner or operator of a hazardous waste treatment, storage or disposal facility, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least \$1 million per occurrence with an annual aggregate of at least \$2 million,



exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in subsections (a)(1), (a)(2) and (a)(3).

You are in apparent violation of 35 Ill. Adm. Code 725.247(a) for the following reason(s): You failed to provide proof of liability coverage for sudden as required.

4. Pursuant to 35 Ill. Adm. Code 725.247(b), an owner or operator of a surface impoundment, landfill or land treatment facility which is used to manage hazardous waste, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least \$3 million per occurrence with an annual aggregate of at least \$6 million, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in subsections (b)(1). (b)(2). and (b)(3).

You are in apparent violation of 35 III. Adm. Code 725.247(b) for the following reason(s): You failed to provide proof of liability coverage for non-sudden as required.

JR:tf/0304j.53-54

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Refer to: 1558010006 -- Putnam County

LTV Steel ILD000781591 Compliance File

COMPLIANCE INQUIRY LETTER

Certified #

January 20, 1988

LTV Steel Company Attention: Robert Voytko 3100 East 45th Street Cleveland, Ohio 44127

Dear Mr. Voytko:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 III. Adm. Code Part 725 and to inquire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent violations. The Agency's findings of apparent non-compliance in Attachment A are based on a January 13, 1988 review of documents submitted to the Agency to demonstrate compliance with the requirements of Subpart H.

Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. The written response, and two copies of all documents submitted in reply to this letter, should be sent to the following:

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

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Further, take notice that because some or all of the apparent violations cited constitute high priority violations (HPVs), in accordance with the USEPA Enforcement Response Policy this matter is being referred to USEPA Region 5 or the Illinois Attorney General's Office to seek assessment of a penalty pursuant to either the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq. or the federal Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sec. 6901 et seq.

If you have any questions regarding the above, please contact Andrew Vollmer at 217/782-9884.

Sincerely,

Angela Aye Tin, Manager

Technical Compliance Unit Compliance Section

Division of Land Pollution Control

AAT: AV: GDS: jk/170j,6-7

cc: Division File
Rockford Region
Gary King
Dave Retzlaff
Geordie Smith
Andy Vollmer
USEPA Region V

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Attachment A

- Pursuant to 35 Ill. Adm. Code 725.242(b), during the active life of the facility, the owner or operator shall adjust the closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instruments used to comply with Section 725.243. For owners and operators using the financial test or corporate guarantee, the closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before submission of updated information to the Agency as specified in Section 725.243(e)(5). The adjustment may be made by recalculating the closure cost estimate in current dollars, or by using an inflation factor derived from the most recent annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business as specified in subsections (b)(1) and (b)(2). The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year.
 - The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate.
 - Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor.

You are in apparent violation of 35 Ill. Adm. Code 725.242(b) for the following reason(s): you failed to update your closure cost as required.

- 2. Pursuant to 35 Ill. Adm. Code 725.243(b)(4), the bond must guarantee that the owner or operator will:
 - Fund the standby trust fund in an amount equal to the penal sum of A. the bond before the beginning of final closure of the facility; or
 - Fund the standby trust fund in an amount equal to the penal sum В. within 15 days after an order to begin final closure is issued by the Board or a U.S. district court or other court of competent jurisdiction; or
 - Provide alternate financial assurance as specified in this Section, С. and obtain the Agency's written approval of the assurance provided, within 90 days after receipt by both the owner or operator and the Agency of a notice of cancellation of the bond from the surety.

You are in apparent violation of 35 Ill. Adm. Code 725.243(b)(4) for the following reason(s): you failed to update your financial assurance document as required.

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Pursuant to 35 Ill. Adm. Code 724.251, the Agency shall promulgate standardized forms based on 40 CFR 264.151 with such changes in wording as are necessary under Illinois law. Any owner or operator required to establish financial assurance under this Subpart shall do so only upon the standardized forms promulgated by the Agency. The Agency shall reject any financial assurance document which is not submitted on such standardized forms. The Agency has rejected your financial assurance document(s) for failure to use the Illinois standardized forms. Your insurance certificate is a photocopy, and photocopies are not acceptable.

AAT: AV: GDS: jk/170j.8-9



Refer to: 1558010006 -- Putnam County

LTV Steel Co. ILD000781591

UIC Compliance File

December 8, 1987

LTV Steel Company Hennepin Herks Attention: Hr. Paul Schlingran Post Office Box 325 Hennepin, Illinois 61327

Pear Mr. Schlingran:

On Povember 18, 1987 your facility was inspected by David S. Retzlaff of the Illinois Environmental Protection Agency. The purpose of this inspection was to determine your facility's compliance with 35 Illinois Administrative Code, Part 702, Subpart(s) B, C and D, Part 704, Subpart C, and Part 730, Subparts A and B. At the time of the inspection, no apparent violations of the requirements addressed as part of the inspection were observed.

For your information a copy of the inspection report is enclosed. Should you have any questions regarding the inspection, please contact David S. Petzlaff at 815/987-7404.

Sincerely.

angela aye Din

Angela Aye Tin, Panager Technical Compliance Unit Compliance Section Division of Land Pollution Control

AAT: DSR: PF: rd/15/00a//3

Enclosure

cc: Division File Rockford Region Geordie Smith Bur Filson Steve Cobelman

MEMORANDUM

DATE:

December 11, 1987

T0:

Division File

FROM:

Bur Filson BX

SUBJECT:

1558010006 -- Putnam County

LTV Steel

UIC Mechanical Ingrity Test File

On November 18, 1987 the subject facility conducted a pressure test on the annulus of WDW #1. The annulus was pressured to 999 psig, and a four (4) hour test followed. Listed below are the pressure reading taken at thirty (30) minute intervals during the test:

0 min.	999 psig	% decline per 30 minute period
30 min.	976 psig	2.3 % decline
60 min.	960 psig	1.6 % decline
90 min.	949 psig	1.1 % decline
120 min.	935 psig	1.4 % decline
150 min.	925 psig	1.0 % decline
180 min.	911 psig	1.5 % decline
210 min.	896 psig	1.6 % decline
240 min.	885 psig	1.2 % decline

Attached are the pressure readings taken every minute during the pressure test.

BF:rmi/4505q/47

cc: Division UIC File Rockford Region Steve Gobelman Angela Tin

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LTV Steel Company

THEN to MICHEUR T.

October 12, 1987

Harry A. Chappel, P.E., Acting Manager Facilities Compliance Unit Compliance Monitoring Section Illinois Environmental Protection Agency Division of Land Pollution Control 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276

Re: 1558010001 -- Putnam County Hennepin/LTV Steel Co.

ILD000781591

Compliance Inquiry Letter (9/17/87)

Dear Mr. Chappel:

I am responding to your September 17, 1987 Compliance Inquiry Letter (CIL) regarding LTV Steel Company's Hennepin Works. The alleged violation concerns the purported failure to certify closure of a hazardous waste facility.

Because LTV Steel has not closed any hazardous waste TSD facility at the Hennepin Works, I discussed this matter with Gene Dingledine and Karen Nachtway to ascertain the reason for the CIL. Apparently, the inquiry relates to the spent pickle liquor storage tanks at the facility. These storage tanks are used for temporary (less than 90 day) storage, and have not been closed. Accordingly, it appears that the CIL is in error. If such is not the case, please let me know immediately.

By way of background, LTV Steel (then, Jones & Laughlin Steel Incorporated) originally submitted a Part A permit application for the Hennepin Works underground injection disposal well (deep well) and three spent pickle liquor storage tanks, which have a total capacity of 330,000 gallons. Although the storage tanks were included in the original Part A, they always have been used for less-than-90-day storage, and they were included in the application only as a "protective filing," to preserve interim status.

As required by the RCRA regulations, and at the request of the U.S. EPA and Illinois EPA, LTV Steel developed a closure plan, which contemplated shutdown of the facility and the dismantling and removal of the tanks from service. That closure plan was approved by both the U.S. EPA and the Illinois EPA.

15 (3)

H. A. Chappel October 12, 1987 Page Two

It has never been LTV Steel's intention to remove and dismantle the tanks, except in the event of plant shutdown, which is not currently contemplated.

Recently, LTV Steel was issued a UIC permit, and the deep well is no longer subject to the original Part A application (interim status). Because the storage tanks are not, and never have been, subject to regulation under state or federal hazardous waste regulations, there are no longer any regulated facilities subject to LTV Steel's original application.

LTV Steel has previously submitted a RCRA permit withdrawal request. LTV Steel hereby requests that IEPA take action on the withdrawal or advise it as to any additional information that is necessary to act on this matter.

Please contact Mr. Larry Szuhay of LTV Steel's Corporate Environmental Control Department at 216-429-6475 or me at 216-622-5628 should you wish.

Very truly yours,

Lee E. Larson

LEL:cf



Refer to: 1558010001 -- Putnam County

Hennepin/LTV Steel Co.

ILD000781591 Compliance File

COMPLIANCE INQUIRY LETTER

Certified # 8594562 158

September 17, 1987

LTV Steel Company

Attention: Paul Schlingman

P.O. Box 325

Hennepin, Illinois 61327

Dear Mr. Schlingman:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 Ill. Adm. Code Part 725, Subpart G and to inquire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent Violations. The Agency's findings of apparent non-compliance in Attachment A are based on a June 26, 1987 review of documents submitted to the Agency to demonstrate compliance with the requirements of Subpart G.

Please submit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. The written response, and two copies of all documents submitted in reply to this letter, should be sent to the following:

> Harry A. Chappel, P.E., Acting Manager Facilities Compliance Unit Compliance Monitoring Section Illinois Environmental Protection Agency Division of Land Pollution Control 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

Further, take notice that because some or all of the apparent violations cited constitute high priority violations (HPVs), in accordance with the USEPA Enforcement Response Policy this matter is being referred to USEPA Region 5 or the Illinois Attorney General's Office to seek assessment of a penalty pursuant to either the Illinois Environmental Protection Act, Ill. Rev. Stat., Ch. 111 1/2, Sec. 1001 et seq. or the federal Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Sec. 6901 et seq.



If you have any questions regarding the above, please contact Gene Dingledine at 217/782-6761.

Sincerely,

Marry A. Chappel, P.E., Acting Manager Facilities Compliance Unit Compliance Monitoring Section

Division of Land Pollution Control

HAC: GDS: ba/2968g/42-43

cc: Division File Rockford Region

Gary King Gene Dingledine Geordie Smith USEPA Region V

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Attachment A

Pursuant to 35 III. Adm. Code 725.215, within 60 days after completion of closure of each hazardous waste surface impoundment, waste pile, land treatment and landfill unit, and within 60 days after completion of final closure, the owner or operator shall submit to the Agency, by registered mail, a certification that the hazardous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved closure plan. The certification must be signed by the owner or operator and by an independent registered professional engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the Agency upon request until the Agency releases the owner or operator from the financial assurance requirements for closure under Section 725.243(h).

You are in apparent violation of 35 Ill. Adm. Code 725.215 for the following reason(s): You failed to provide the required certification.

HAC:GDS:ba/2968g/44



217/782-6761

Refer to: 1558010001 -- Putnam County

LTV Steel Company ILDO00781591 Compliance File

PRE-ENFORCEMENT CONFERENCE LETTER

Certified #

August 27, 1987

LTV Steel Company Attn: Mr. Paul Schlingman Hennepin Works Hennepin, IL 61320

Dear Mr. Schlingman:

The Agency has previously informed LTV Steel Company of apparent violations of the Illinois Environmental Protection Act and/or rules and regulations adopted thereunder. These apparent violations are set forth in Attachment A

As a result of these apparent violations, it is our intent to refer this matter to the Agency's legal staff for the preparation of a formal enforcement case. The Agency's legal staff will, in turn, refer this matter to the Office of Attorney General or to the United States Environmental Protection Agency for the filing of a formal complaint.

Prior to taking such action, however, you are requested to attend a Pre-Enforcement Conference to be held at 4302 North Main Street, Rockford, Illinois. The purpose of this Conference will be:

- To discuss the validity of the apparent violations noted by Agency staff, and
- 2. To arrive at a program to eliminate existing and/or future violations.

You should, therefore, bring such personnel and records to the conference as will enable a complete discussion of the above items. We have scheduled the Conference for September 16, 1987, at 1:30 p.m. If this arrangement is inconvenient, please contact David S. Retzlaff at 815/987-7404 to arrange for an alternative date and time.

In addition, please be advised that this letter constitutes the notice required by Section 31(d) of the Illinois Environmental Protection Act prior to the filing of a formal complaint. The cited Section of the Illinois



Page 2

Environmental Protection Act requires the Agency to inform you of the charges which are to be alleged and offer you the opportunity to meet with appropriate officials within thirty days of this notice date in an effort to resolve such conflict which could lead to the filing of formal action.

Sincerely,

Harry A. Chappel, P.E., Manager Compliance Monitoring Section Division of Land Pollution Control

HAC: DSR:mab/3439q/38-39

Attachment

cc: Division File

Region 1

Geordie Smith Steven Strauss



ATTACHMENT A

- Pursuant to 35 III. Adm. Code 703.152(a), if any owner or operator of a HWM facility has already filed Part A of a permit application and has not yet filed Part B, then the owner or operator shall file an amended Part A application with the Agency:
 - 1. Within six months after the effective date of revised regulations under 35 Ill. Adm. Code 721 listing or identifying additional hazardous wastes, if the facility is treating, storing or disposing of any of those newly listed or identified wastes.
 - 2. As necessary to comply with provisions of Section 703.155 for changes during interim status.

You are in apparent violation of 35 Ill. Adm. Code 703.152(a) for the following reason(s): LTV Steel Company did not file an amended Part A application with the Agency as necessary to comply with provisions of Section 703.155 for changes during interim status.

Pursuant to 35 III. Adm. Code 703.155(d), changes in the ownership or operational control of a facility may be made if the new owner or operator submits a revised Part A permit application no later than 90 days prior to the scheduled change. When a transfer of ownership or operational control of a facility occurs, the old owner or operator shall comply with the requirements of 35 Ill. Adm. Code 725, Subpart H (financial requirements), until the new owner or operator has demonstrated to the Agency that it is complying with that Subpart. All other interim status duties are transferred effective immediately upon the date of the change of ownership or operational control of the facility. Upon demonstration to the Agency by the new owner or operator of compliance with that Subpart, the Agency shall notify the old owner or operator in writing that it no longer needs to comply with that Part as of the date of demonstration.

You are in apparent violation of 35 Ill. Adm. Code 703.155(d) for the following reason(s): A revised Part A permit application was not submitted 90 days prior to the change in operational control from Jones & Laughlin Steel Corporation Pittsburg, PA to LTV Steel Company Cleveland, OH.

DSR:mab/3439g/40

12

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY Facility Inspection Form for Compliance with Underground Injection Control Requirements (Permit and Inspection Fee Form)

Facility Name: LTV Stee/ Company IEPA File Heading: LTV Stee!
Facility Address. Hennepin Works IEPA I.D. Number: 1558010006
P.U. Box 325 county: Putnam
Hennepin IL 61327 U.S. EPA I.D. No.: ILD000781591
Facility Contact: Paul Schlingman Inspector(s) Name: David S. Retzlaff
Title: Gen. Supr. Combustion & Utilities
Well Name: WDW Date of Inspection: 5eplember 11,1987
1. Well Classification Haz. NH Time (From) 10:10a(To) 11:07
Class II Class III Class IV
Class V
Comments:
2. Authorization
IEPA Permit: V Permit Number: UIC-004-WI-JL
Authorization By Rule: Emergency Permit: Other: Permit Number:
3. Operational Status
Operating: Standby: Inoperable:
Comments: The last injection event was completed on 9/10/87.
120,000 gallons of and was injected followed by 4400
gallons of wate,

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SEP 16 1987
IEPA/DLOC

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		Yes	No	<u>Value</u>
4.	Recording Devices			
a.	Are continuous recording devices present/operating for: (730.113(b)(2))			
	1. Injection Pressure*+ 2. Injection Flow Rate*+ 3. Volume*+ 4. Annulus Pressure*+ 5. Temperature 6. pH 7. Other (specify) 8. Other (specify)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		20 ps:g 484 ps:g #1=986F, 0#2=-
b.	Are gauges present/operating for:			
	1. Injection Pressure 2. Injection Flow Rate 3. Volume 4. Annulus Pressure 5. Temperature 6. pH 7. Other (Specify) Tanklevels 8. Other (Specify)			20 psis 984 psis Tank#1 = 4.9 # 2 : esc
c.	Are all of the above operating within permitted ranges?	-	Application and the second	
Con	ments:			
			The second secon	······································
			D-OMM-SOMME	(Prince of the Product contemporary of the program of the Contemporary of the Contempo

^{*}Required for Class I wells +Required for Authorization by Rule

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		Yes	<u>No</u>	Comment
5.	Reporting Requirements			
a.	Are reports submitted at least quarterly to the Agency on: (730.113(c)) 1. the physical, chemical and other relevant characteristics of the injection fluids+			
	 the monthly average, maximum and minimum values for injection pressure, flow rate and volume and annulur pressure+ 	<u>/</u>		
	3. monitor well data+	N/A		
b.	Was the Agency notified within 24 hours of: (704.181(d)) 1. Any monitoring or other information which indicates that any contamination may cause an endangerment to a USDW+	N/A		
	2. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDW's.+	NA		
Con	ments:			
				
		Yes	No	Comment
6.	Special Conditions			
ā.	Are all permit special conditions being met?		and construction of the co	
Ехр	If no; lain:			

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7.	Pre-Injection Storage Facilities and Transm	ission Lines		
a.	Storage Facilities			
	1. Type of Storage A. Tanks 2 - 150,000 gallon fa. B. Surface Impoundments	165.		
		Yes	<u>No</u>	Comment
b.	Condition of Storage Facility			
	1. Is adequate freeboard being maintained?	NA	and the same of th	
	2. Are the dikes maintained to prevent leaks?		e**********************************	
	3. Are the tanks maintained to prevent leaks?		and the square, singues.	
	4. Is there evidence of past leaks?		<u> </u>	
	If so, what steps have been taken to correct and clean up the leak?			
Con	ments:			
		Yes	No	Comment
c.	Tramission Lines			
	1. Are transmission lines being maintained to prevent leaks?			
	2. Is there evidence of past leaks?	enmononina applica		
	If so, what steps have been taken to correct and clean up the leak?			
Con	ments:			

emarks: I met with Paul Schlingman in his office and inspected the recent monthly
reports and chemical analyses.
We proceeded down to the treatment plant. One of the storage tanks was recently
relined. The other tank is currently being relined. Therefore, waste is being
injected more often than must on weekends, which is the normal procedure.
Everything appeared to be in order.
I left the site at 11:07 a.m.

7H:b1s/0070E,sp

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July 31, 1987

Harry A. Chappel, P.E., Acting Manager Facilities Compliance Unit Compliance Monitoring Section Illinois Environmental Protection Agency Division of Land Pollution Control 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

Re: Compliance Inquiry Letter

Dear Mr. Chappel:

I am responding separately to numbered paragraphs 1 and 2 of Attachment A to your July 16, 1987 Compliance Inquiry Letter directed to Mr. Paul Schlingman at LTV Steel's Hennepin Works.

There has been no change in the ownership or operational control of the Hennepin Works since the Part A permit application was filed (November 7, 1980). The original permit application was filed by Jones & Laughlin Steel Incorporated, a wholly-owned subsidiary of The LTV Corporation. In June, 1984, The LTV Corporation acquired Republic Steel Corporation by merger. Thereafter, the operations of Republic and J&L were combined under the new name, LTV Steel Company, Inc.

If you have any further questions, please call me at (216) 622-5628.

Very tryly yours,

Lee E. Larson

LEL:cf

cc: P.N. Schlingman

L.A. Szuhay R.A. Voytko

T.A. Zalenski

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AUG - 3 1987

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LTV Steel Company

Compliance File

RESPONSE IN \$116/87 CIL. XCto Reg V.

Steel Company

500/
Lycot-Putnam Co.

July 31, 1987 155 801000f-Putnam Co. LTV Steel Co. ILD 000 781591

Harry A. Chappel, P.E., Acting Manager Facilities Compliance Unit Compliance Monitoring Section Illinois Environmental Protection Agency Division of Land Pollution Control 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

Dear Mr. Chappel

Our response to your letter dated July 16, 1987, paragraphs No. 1 and 2 of attachment "A" have been made by our Mr. Lee E. Larson under separate copy.

In response to your paragraph No. 3, attachment "A" of the subject letter, efforts to reduce the volume and toxicity of spent pickle liquor generated at the subject facility include the following:

- implementation of Integrated Process Control (IPC) techniques to identify and maintain optimum operating parameters in the interest of minimizing pickle liquor usage and maximizing product quality.
- on-going evaluation of economically practicable methods of usage, storage and disposal of waste to minimize threat to human health and the environment.

Although LTV Steel's efforts may be nearing the lower limit of technical feasibility in terms of quantity/concentration of pickle liquor required - which directly influences the quantity/toxicity of spent pickle liquor generated - the efforts previously described have reduced the quantity of spent pickle liquor are shown in the following table:

Year	Spent Pickle Liquor gal/ton*
1986	6.7
1985	7.2
1984	7.2

Further efforts in this area are expected.

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IEPA-DLRO

In response to paragraph No. 4 of attachment "A" of the subject letter, I contacted your representative Mr. David S. Retzlaff and discussed with him what he believed to be an omission of our contingency plan submittal to the local agencies. Mr. Retzlaff apparently overlooked our record of this submittal during his inspection and I have mailed to him a copy of this submittal which was made back in 1980 and I believe that he now feels that this requirement is indeed satisfied.

If you have any further questions concerning these items, please call me at Area Code 815-925-2133.

Vn Schlugnan

P.N. Schlingman, General Supervisor Utilities and Environment

/ch UTIL5

cc: L.A. Szuhay

R.A. Voytko

T.A. Zalenski

L.E. Larson

file

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ILLINOIS POLLUTION CONTROL BOARD June 10, 1987

	-
LTV STEEL COMPANY,)
)
Petitioner,)
)
V .) PCB 87-68
V	<u> </u>
ILLINOIS ENVIRONMENTAL	,
TPDIMOTS PRATMOMMENTAD	/
PROTECTION AGENCY,)
)
Despendent	Š
Respondent.	1

ORDER OF THE BOARD (by J.D. Dumelle):

This matter comes before the Board upon a June 8, 1987, Motion for Extension of Time to Respond to Board Order of May 28, 1987, filed by the Illinois Environmental Protection Agency (Agency). The Board's May 28, 1987, Order requested the parties to file briefs on or before June 9, 1987. Because the Agency did not receive a copy of this Order until June 5, 1987, the Agency requests an extension of time until June 12, 1987, within which to fully prepare and submit its brief. The Agency's motion is hereby granted.

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Order was adopted on the day of the 1987 by a vote of 6-0

Dorothy M. Gunn, Clerk

Illinois Pollution Control Board

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ľ.	<u>General Information</u>	
	USEPA Number: ILD000781591 IEPA Number: 1558010001	1
	LDF Facility: YES (NO) Notified As: G, Storage, UIC Regulated As: G, Storage, UIC	
	(A) Facility Name: LTV Steel Co Hennepin Works	
	(B) Street: State Route 71	1.
	(C) City: Hennepin (D) State: Illinois (E) Zip Code: 6132	7
	(F) Phone: 815/925-2133 (G) County: Putnam	
	(H) Operator: LTV Stee/ Co.	-
	(1) Street: LTV Steel Building - 25 Prospect Avenue NW	
	(J) City: Cleveland (K) State: Ohio (L) Zip Code: 4411 S	>
	(M) Phone: 216/622-5000 (N) County: Cuyahoga	
	(0) Owner: LTV Steel Co	
	(P) Street: LTV Steel Building: 25 Prospect Avenue NW	20
	(Q) City: Cleveland (R) State: Ohio (S) Zip Code: 44/15	
	(T) Phone: 216/622-5000 (U) County: Cayaboga	
	. ,	
	Region: \mathbb{R} (V) Date of Inspection: $08/13/86$ (W) Time: (From) 10.30 ,(To) /2.	. 45
	Type of Inspection: (ISS) RECOPD REVIEW SAMPLING CITIZEN COMPLAINT	
	CLOSED WITHDRAWAL OTHER PART B	
	F/U/(Date of Initial Inspection)	
	(X) Weather Conditions: Cloudy - 75° F	_
	Class Class	
	Area Section Class Class	
	(AA) Preparer Information	
	Name	
	David S. Retzlaff	
	Agency/Title	
	IEPA/Env. Prot. Specialist	
	Telephone	
	815/987-7404	
9	RECEIVED	
	AUG 3.0 1986	
	IEPA-DLPC	
	TOTAL Class I's & II's O	
	r can hala	

	(Y) Person(s) Interviewed	41£16	rerephone
	Paul Schlingman	General Superintendent,	815/925-2133
		Combustion and Utilities	
	(Z) Inspection Participants	Agency/Title	Telephone
	David S- Retzlaff	IEPA/Env. Prol-Specialist	815/987-7404
	John Cooper		
		Haz. Waste Enforcement Bo	
			3
II.	Section A: Scope of Inspection.		I CHATADDOHO HAOTEO
	E, and G.	r the treatment, storage or disposa e 725,101. Complete Inspection For	
	 Place an "X" in the box(es) disposal processes, and gen only the applicable section 	corresponding to the facility's treeration and/or transportation actives and appendixes.	eatment, storage or ity (if any). Complete
	Permit application process(es) (EPA F	orm 3510-3) Inspect	ion Form A section(s)
	S01 storage in c	ontainers	I
	S02 storage in t	anks	J
	T01 treatment in	tanks	J
	SO4 storage in s	surface impoundment	K, F
	TO2 treatment in	n surface Impoundment	K, F
	D83 disposal in	surface Impoundment	K, F
	S03 storage in w	vaste pile	L
	D81 disposal by	land application	M, F
	D80 disposal in	landfill	N, F
	TO3 treatment by	/ incineration	0, P
	T04 treatment in impoundments	n devices other than tanks, surface s, or incinerators	Q
	Other Activities		
	GENERATOR	APPEND .	
	TRANSPORTER	APPEND	IX TR

- Indicate any hazardous waste processes, by process code, which have been omitted from Part A of the facility's permit application.
- 4. Indicate any hazardous waste processes (by process code and line number on EPA Form 3510-3 page 1 of 5) which appear to be eligible for exclusion per 35 III. Adm. Code 725.101(c). Provide a brief rationale for the possible exclusion.

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REMARKS

Use this section to briefly describe site activities observed at the time of the inspection. Note any possible violations of Interim Status Standards.

The purpose of this visit was to conduct a RCRA-CEI inspection of LTV Steel. I arrived at the facility at 10:30 a.m. on August 13, 1986. I met John Cooper of USEPA-Region V. John's purpose was to conduct an oversight inspection (to evaluate my performance).

We proceeded to Paul Schlingman's office. In Mr. Schlingman's office I reviewed his waste analysis and plan, security measures, personnel training records, contingency plan and manifests. All were in order.

We proceeded to the pickling line, then to the storage tanks. No irregularities were observed.

At the treatment plant I was able to inspect the emergency and safety equipment, operating records and inspection logs.

No violations were observed during this inspection.

I left site at 12:45 p.m.

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